

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for configuring a base station of a cellular network[~~5~~
~~characterized in that the method comprises~~] comprising the steps of:

- [-] downloading information about frequencies used by neighbo[~~u~~]ring base stations into a mobile communication means,
- [-] scanning a frequency band of the cellular network with said mobile communication means for determining signal levels within the frequency bands, wherein said step of scanning comprises the sub-step of:
 - measuring reception levels at frequencies within the frequency band; and
 - space averaging the measured reception levels;
- [-] receiving a selection of an operating frequency for the base station from the user of said mobile communication means,
- [-] transmitting configuration information comprising at least the selected operating frequency for the base station from said mobile communication means, and
- [-] configuring the base station according to the transmitted information.

2. (Currently Amended) The [A] method according to claim 1, [~~characterized in that the method~~] further compris[es]ing the steps of

- [-] downloading at least one parameter set into said mobile communication means from the network, and
- [-] selecting one parameter set from said at least one parameter sets for the base station using said mobile communication means, [~~and~~]
wherein the step of transmitting configuration information comprises the sub-step of:
- [-] transmitting information about the selection of the parameter set to the cellular network.

3. (Currently Amended) The [A] method according to claim 1, [~~characterized in that the method~~] further compris[es]ing the step of:

selecting the transmission power of the base station using said mobile communication means.

4. (Currently Amended) The [A] method according to claim 1, ~~[characterized in that the method]~~ further compris[es]ing the step of:

creating the near neighbo[ur] relations of the base station.

5. (Currently Amended) The [A] method according to claim 1, ~~[characterized in that the method]~~ further compris[es]ing the step of:

adjusting the near neighbo[ur] relations of the base station.

6. (Currently Amended) The [A] method according to claim 1, wherein ~~[characterized in that]~~ said information about frequencies comprises information of BCCH frequencies of nearby cells and of TCH frequencies corresponding to said BCCH frequencies.

7. (Currently Amended) A mobile station for configuring a base station of a cellular telecommunications network, ~~[characterized in that the mobile station]~~ compris[es]ing:

- [-] a processor ~~[(41)]~~ for controlling frequency scanning,
- [-] a memory ~~[(42)]~~ for storing a program for the processor ~~[(41)]~~,
- [-] a receiver ~~[(45)]~~ and an antenna ~~[(46)]~~ for receiving on a plurality of frequencies, ~~[and]~~
- [-] transmitting means for transmitting data obtained from frequency scanning to a base station,
- [-] processing means to receive measurements of reception levels at frequencies within ~~[scan]~~ a frequency band of the cellular telecommunications, wherein said measurements are space averaged to determine an average reception level for a frequency ~~[for determining signal levels within the frequency band]~~, and
- [-] processing means to transmit configuration information for the base station to the cellular telecommunications network.

8. (Currently Amended) The [A] mobile station according to ~~[the]~~ claim 7, ~~[characterized in that the mobile station]~~ further compris[es]ing:

- [-] a display ~~[(43)]~~ for presenting results of said frequency scanning, and
- [-] a keyboard ~~[(44)]~~ for inputting data.

9. (New) The method according to claim 1, wherein the sub-steps of measuring and space averaging comprise the steps of:

measuring reception levels while moving the mobile communication means in the area of the base station; and
averaging the results obtained during the movement of the mobile communication means.

10. (New) The mobile station according to claim 7, wherein the mobile station is moved around the base station while the reception levels are being measured and the measurements obtained during the movement are averaged to determine said average reception level.

11. (New) A method for installing, configuring, and/or reconfiguring a base station at a location of a cellular network using a mobile station, comprising the steps of:

downloading base station setup information about the location of the base station into the mobile station, wherein said base station setup information comprises a frequency band selected for the location;

selecting, by a user using the mobile station, an operation frequency for the base station, by performing the sub-steps of:

moving the mobile station around in order to take a plurality of measurements of reception levels at different spots within the transmission area of the base station;

averaging together the measured reception levels to obtain an average reception level for each frequency in the selected frequency band, and

selecting, based at least on the averaged reception levels, an operation frequency for the base station from the frequencies with the selected frequency bands; and

transmitting the selected operation frequency to the base station, whereby the operation frequency of the base station is configured.

12. (New) The method of claim 11, wherein the step of transmitting the selected operation frequency comprises the step of:

transmitting, from the mobile station to a network element in the cellular network, the selected operation frequency, wherein the cellular network transmits the selected operation frequency to the base station.

13. (New) The method of claim 11, wherein the step of transmitting the selected operation frequency comprises the step of:

transmitting, from the mobile station directly to the base station, the selected operation frequency.

14. (New) The method of claim 11, wherein the base station setup information further comprises at least two parameter sets, and the method further comprises the steps of:

selecting a parameter set from the at least two parameter sets based on surroundings of the base station;

transmitting the selected parameter set to the base station.

15. (New) The method of claim 11, wherein the base station setup information further comprises at least one base station identifier, and the method further comprises the step of:

inputting a base station identifier of the at least one base station identifier into the base station.

16. (New) The method of claim 11, wherein the base station setup information further comprises one or more frequencies within the selected frequency band which are used by nearby cells in the cellular system, and the step of selecting the operation frequency further comprises the sub-step of:

displaying, on a display of the mobile station, the spectrum of averaged reception levels of the frequencies within the selected frequency band, wherein the average reception levels of the one or more frequencies within the selected frequency band which are used by nearby cells in the cellular system are also shown in the displayed spectrum.

17. (New) A method for installing a plurality of base stations at a location in a cellular network using a mobile station, comprising the steps of:

downloading base station setup information about the location into the mobile station, wherein said base station setup information comprises a frequency band selected for the location, at least one cell identifier, a plurality of base station identifiers, a plurality of parameter sets, and one or more frequencies within the selected frequency band which are used by nearby cells in the cellular system; and

for each base station, performing the steps of:

selecting, by a user using the mobile station, an operation frequency for the base station within the selected frequency band, by taking a plurality of measurements of reception levels for frequencies within the selected frequency band at different spots within the transmission area of the base station;

selecting a parameter set from the plural parameter sets for the base station based on the surroundings of the base station;

inputting a base station identifier for the base station from the plural base station identifiers;

configuring a transmission link between the base station and a base station controller of the location;

transmitting the selected operation frequency and the selected parameter set from the mobile station via the base station to the base station controller; and

configuring, by the base station controller, the base station using the transmitted selected operation frequency and selected parameter set.

18. (New) The method of claim 17, wherein the location in the cellular network is a building and/or complex of buildings.

19. (New) The method of claim 18, wherein the base stations located in the gateway cells of the building and/or complex of buildings are configured first.